

**DRAFT Data Assessment Team (DAT) Conference Call Notes**  
**2/2/2017 at 11:00 a.m.**

Participants: Norman Lee and Farida Islam (DWR), Geir Aasen and Trishelle Morris (DFW), Ellison (MWD), Lucinda Shih(CCWD), Barb Byrne(NMFS), Leigh Bartoo(FWS)

**Sacramento River Fish Monitoring**

<b>Preliminary Rotary Screw Trap (RST) Report</b>				
<b>Species*</b>	<b>FWS Red Bluff Diversion Dam RST (Estimated Passage)</b>	<b>Glenn-Colusa Irrigation District (GCID) RST (Catch)</b>	<b>DFW Tisdale Weir RST (Catch)**</b>	<b>DFW Knights Landing RST (Catch)</b>
<b>Date</b>	<b>1/15/2017- 1/28/2017</b>		<b>1/20/17-1/31/17</b>	<b>1/20/17-1/31/17</b>
CHNF	3,229,938		210	
CHNLF	0		0	
CHNW	1118		0	5
CHNS	1,794		3	6
Ad-Clipped CHN			0	3
SH	0		0	
Ad-Clipped SH			4	6
GST			Not Reported	Not Reported
*Chinook race based on length (Frank Fisher model); CHNF=Fall run, CHNLF=Late-fall run, CHNW=Winter run, CHNS= Spring run, SH = Steelhead, GST= Green Sturgeon. Species are unmarked unless noted as adipose-fin clipped (ad-clipped). Data subject to revision. ** Numbers represent observations and are not expanded to represent estimated passage.				

Additional RBDD update from Scott Voss :  
As of the 31st of January:

For the month of January the project has seen wet weather and subsequent higher release rates out of Keswick hamper our ability to safely collect samples. We have had to deploy, take off and redeploy our traps several times over the month and are also having to sample at a reduced effort due to the higher flows when we are on the water. We have only been able to sample 11 days of the month of January. A majority of these days were sampled using our randomized mort/storm schedule (a reduction in effort vs normal 24hr samples) because we cannot leave the traps unattended while fishing at these velocities for the sake of fish health and equipment wear and tear. The cycles of wet weather for our area seem to continue and we are having to pull our traps off the water again today to get out of the way of another round of elevated river flows set to take place today through the weekend.

We have encountered mostly FCS fry during our sampling in January. Please see the biweekly report for the period of 1/15/17-1/28/17 that I sent out yesterday for more specifics.

GCID: On 1/4/2017, cone was checked and lifted at 9:00 PM due to predicted high flows and heavy debris. No Update since then.

Graphical summaries of the monitoring data collected at the Sacramento River and at other locations can be found at <http://www.water.ca.gov/swp/operationscontrol/calfed/calfedmonitoring.cfm>. In addition, the biweekly passage reports of juvenile salmonids sampled at the Red Bluff Diversion Dam are available at [http://www.fws.gov/redbluff/rbdd\\_biweekly.aspx](http://www.fws.gov/redbluff/rbdd_biweekly.aspx).

**Delta Fish Monitoring** update provided from data received from Jon Speegle (FWS):

Preliminary FWS Trawl and Seine Catch Report from 1/22/17 to 1/28/17				
Species*	Beach Seines	Mossdale Trawl	Sacramento Trawl	Chippis Island Trawl
CHNF	147	10	85	
CHNLF				
CHNW	2			
CHNS	7		2	
Ad-Clipped CHN	1			3
SH				
Ad-Clipped SH				
DSM				6
LFS				5
SPLT				7
*Chinook race based on length (Frank Fisher model); CHNF=Fall run, CHNLF=Late-fall run, CHNW=Winter run, CHNS= Spring run, SH = Steelhead, DSM=Delta Smelt, LFS=Longfin Smelt, SPLT = Splittail. Species are unmarked unless noted as adipose-fin clipped (ad-clipped). Data subject to revision.				

Information about the Delta fish monitoring data from FWS can be found at <http://www.fws.gov/stockton/jfmp/>.

### **Hatchery Release Update:**

Livingston Stone National Fish Hatchery planned release of approximately 141,388 brood year 2016 winter Chinook salmon into the Sacramento River on 2 February 2017. These fish are ~85 mm fork length and are 100% coded-wire tagged and marked with an adipose-fin clip. Loss calculated from this group that are salvaged at the Delta fish facilities are part of the NMFS BiOP trigger requirement used for OMR management.

### **Salvage Monitoring update**

The following update is provided by Geir Aasen(DFW) for the period from 1/23/2017 to 1/29/2017. :

Large unknown race Chinook Salmon (NON adipose clipped) were salvaged at the state facility (weekly salvage= 6), but not at the federal facility for the period of reporting.

Fall run sized Chinook Salmon (NON adipose clipped) were salvaged at the federal (weekly salvage= 1,096) and state (weekly salvage= 1,091.9) facilities for the period of reporting.

Late fall run sized Chinook Salmon (adipose clipped) were salvaged at the federal (weekly salvage= 4) and state (weekly salvage= 17) facilities for the period of reporting.

Winter run sized Chinook Salmon (adipose clipped) were salvaged at the state facility (weekly salvage= 4), but not at the federal facility for the period of reporting.

The seasonal (10/1/2016 to present) salvage totals of all Chinook Salmon at the federal facility are 593 adipose clipped (loss= 411) and 3,209 NON adipose clipped (loss= 1,868).

The seasonal (10/1/2016 to present) salvage totals of all Chinook Salmon at the state facility are 480 adipose clipped (loss= 2,094) and 1415.4 NON adipose clipped (loss= 5440).

#### **STEELHEAD**

Steelhead (NON adipose clipped) were salvaged at the state facility (weekly salvage= 4), but not at the federal facility for the period of reporting.

The seasonal (10/01/2016 to present) salvage totals of Steelhead at the state facility are zero adipose clipped and 12 NON adipose clipped.

The seasonal (10/01/2016 to present) salvage totals of Steelhead at the federal facility are zero adipose clipped and 8 NON adipose clipped. See attached reports.

#### **LONGFIN SMELT**

No Longfin Smelt were salvaged at either facility for the period of reporting.

The seasonal (10/01/2016 to present) salvage total of Longfin Smelt at the state facility is 2. No Longfin Smelt have been salvaged at the federal facility for the 2016-2017 water year.

#### DELTA SMELT

No Delta Smelt were salvaged at either facility for the period of reporting.

The seasonal (10/01/2016 to present) salvage total of Delta Smelt at the federal facility is 4.  
No Delta Smelt have been salvaged at the state facility for the 2016-2017 water year.

#### SPLITTAIL

Splittail were salvaged at the state facility (weekly salvage= 541.5), but not at the federal facility for the period of reporting.

The seasonal (10/01/2016 to present) salvage total of Splittail at the state facility is 1,997.8.  
The seasonal (10/01/2016 to present) salvage total of Splittail at the federal facility is 8.

#### WHITE STURGEON

No White Sturgeon were salvaged at either facility for the period of reporting.

The seasonal (10/01/2016 to present) salvage total of White Sturgeon at the federal facility is 4.  
The seasonal (10/01/2016 to present) salvage total of White Sturgeon at the state facility is 5.

**No Green Sturgeon have been salvaged at either facility for the 2016-2017 water year.**

#### **Smelt Monitoring**

SKT#2 is in the field this week 2/6/17 -2/9/17.

SLS# 2 was in the field from 2/3-2/19/17. No Delta Smelt was caught. 5 larval longfin smelt were caught.  
SLS#3 is in the field from 1/30-2/2/17. Should be able to provide update next week.

All data are now posted on DFW website.

#### **Smelt Working Group**

Leigh Bartoo(FWS) provided the summary from 1/30/17 Smelt Work group meeting. There was no need for any advice from the workgroup since the flow is steady under the the RPA Component 1, action 2 which has been in effect since January 13, 2017. The group will continue to monitor Delta smelt survey and salvage data and Delta conditions, and will meet again on Monday, 2/6/17.

Working Group detailed meeting notes can be found at:

<https://www.fws.gov/sfbaydelta/cvp-swp/SmeltWorkingGroup.htm>

**Delta Operations for Salmonids and Sturgeon (DOSS) Working Group** Update provided by Barb Byrne via the DAT reflector (NMFS):

Highlights from 1/31/17 DOSS meeting:

DOSS Advice:

- None

RPA Implementation

- **Action IV.1.2 (DCC operations):**
  - The DCC was closed on the morning of 12/1/16.
  - From December 1 to January 31, the gates will remain closed, with limited exceptions.
- **Action IV.2.3 (OMR Management)**
  - Implementation of this action in WY 2017 began 1/1/17, and requires that Old and Middle River (OMR) flow be no more negative than -5,000 cfs.
  - Since the action went into effect on 1/1/17, no salvage-based triggers that would require more positive OMR levels have been exceeded.

Hatchery Releases:

- The production release of approximately 141,388 brood year 2016 winter-run Chinook salmon will be released into the Sacramento River (at Caldwell Park in Redding) from Livingston Stone National Fish Hatchery (CNFH) at dusk on February 2, 2017. All fish are marked with a clipped adipose fin and with CWT.
- A small number of hatchery winter-run Chinook will be acoustic-tagged and released with the production group; tag detections of these fish from a limited number of "real-time" receivers (near Colusa and Sacramento) will be reported in the DOSS notes (likely starting next week).

Fish Monitoring: Salvage

- Unclipped juvenile salmon (none in the winter-run or spring-run size ranges) were salvaged over past week; four wild and no clipped steelhead were salvaged.
  - These unclipped juveniles didn't exceed any loss-density triggers in IV.2.3
- No ad-clipped late-fall run salmon from the recent CNFH releases showed up in salvage over the past week
  - Loss of individuals from the spring-run surrogate release groups didn't exceed any loss-density triggers in IV.2.3
- Some ad-clipped Chinook from the SJRRP releases at Hills Ferry in late November have been salvaged over the past week.
- A few large (likely 2-year old) salmon observed in salvage over past week.

Fish Monitoring: RSTs, trawls, seines:

- Continued catch of wild WR-sized, SR-sized, and FR-sized Chinook in monitoring over past week, as well as ad-clipped late-fall run (likely from the recent Coleman releases).
- Flows and turbidities remain high, though have decreased compared to last week
- EDSM salmonid catch: For the 1/23-1/27 sampling period, 11 fall-run-sized Chinook were caught; see DOSS notes (available later this week) or EDSM datasheet (available now at: [https://www.fws.gov/lodi/juvenile\\_fish\\_monitoring\\_program/jfmp\\_index.htm](https://www.fws.gov/lodi/juvenile_fish_monitoring_program/jfmp_index.htm)) for details.
- Salmonids (all fall-run sized Chinook) were again caught in the Mossdale trawl this week (indicating outmigration of juvenile salmonids from the San Joaquin basin)

DOSS estimates of current fish distribution:

Location	Yet to Enter Delta (Upstream of Knights Landing)	In the Delta	Exited the Delta (Past Chippis Island)
<i>Wild young-of-year (YOY) winter-run Chinook salmon</i>	0%-5%  (Last week: 5%)	70%-85%  (Last week: 80%-90%)	15%-25%  (Last week: 10%-15%)
<i>Wild young-of-year (YOY) spring-run Chinook salmon</i>	20%-40%  (Last week: 20%-50%)	35%-65%  (Last week: 50%-70%)	15%-25%  (Last week: 10%-15%)

DOSS estimates of Entrainment Risk:

- **Interior Delta Entrainment Risk for listed salmonids in the Sacramento River over the next week:**
  - Overall Entrainment Risk: MEDIUM
- **CVP/SWP Facilities Entrainment Risk for listed salmonids in the Interior Delta over the next week:**
  - Overall Entrainment Risk:
    - OMR -2,500 cfs: LOW
    - OMR -3,500 cfs: LOW-MEDIUM (given current hydrology and high Vernalis flow)
    - OMR -5,000 cfs: MEDIUM-HIGH (given current hydrology and high Vernalis flow)
    - OMR -6,250 cfs (*assessment of this OMR level requested by management*): incrementally higher within MEDIUM-HIGH (given current hydrology and high Vernalis flow)

WY 2017 DOSS notes: [http://www.westcoast.fisheries.noaa.gov/central\\_valley/water\\_operations/ocapwy2017.html](http://www.westcoast.fisheries.noaa.gov/central_valley/water_operations/ocapwy2017.html)

All things DOSS: [http://www.westcoast.fisheries.noaa.gov/central\\_valley/water\\_operations/doss.html](http://www.westcoast.fisheries.noaa.gov/central_valley/water_operations/doss.html)

Operations update provided by Norman Lee(DWR):

Preliminary Summary for 2/2/2017			
SWP		CVP	
Clifton Court Inflow (cfs)	10,300	Jones Pumping Plant (cfs)	4,100
SWP San Luis Reservoir Share (TAF) as of Midnight	1,030	CVP San Luis Reservoir Share (TAF) as of Midnight	683
San Luis Reservoir Total (TAF) as of Midnight	1,713	American – Nimbus Reservoir Releases (cfs)	7,050
Feather – Oroville Reservoir Releases (cfs)	20,000	Sacramento – Keswick Reservoir Releases (cfs)	26,000
		Stanislaus-Goodwin Reservoir Releases (cfs)	200
DELTA OPERATIONS			
Outflow (cfs)	~95,800	Delta Cross Channel (DCC) Gates	Closed
Total Delta Inflow (cfs)	~111,309	1 day OMR average (cfs)	-3280
X2 (km)	<56	5 day OMR average (cfs)	-2339
Export/Inflow (%)	9.2(14-day average)	14 day OMR average (cfs)	-3534

Controlling factor(s): Available Capacity

<http://www.water.ca.gov/swp/operationscontrol/docs/delta/deltaops.pdf>.

**Next Conference Call:**

February 9, 11 am.

Final DAT notes can be viewed at

<http://www.water.ca.gov/swp/operationscontrol/calfed/calfeddat.cfm>